RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/539,953_

Source: _PCT_

Date Processed by STIC: _06-30-2005_

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PCT

RAW SEQUENCE LISTING   DATE: 06/30/2005
PATENT APPLICATION: US/10/539,953   TIME: 09:08:22

Input Set : A:\WCM.96.ST25.txt
Output Set: N:\CRF4\06302005\J539953.raw

```
     3 <110> APPLICANT: University of Wales College of Medicine
     4         COOPER, David N
     5         KRAWCZAK, Michael
     6         HEDDERICH, Jurgen
     8 <120> TITLE OF INVENTION: Haplotype Partitioning
    10 <130> FILE REFERENCE: WCM.96
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/539,953
C--> 13 <141> CURRENT FILING DATE: 2005-06-17
    15 <150> PRIOR APPLICATION NUMBER: GB 0229725.7
    16 <151> PRIOR FILING DATE: 2002-12-19
    18 <160> NUMBER OF SEQ ID NOS: 40
    20 <170> SOFTWARE: PatentIn version 3.1
    22 <210> SEQ ID NO: 1
    23 <211> LENGTH: 16
    24 <212> TYPE: DNA
    25 <213> ORGANISM: human
    27 <400> SEQUENCE: 1
    28 gggggggtatg aagaat                                      16
    31 <210> SEQ ID NO: 2
    32 <211> LENGTH: 16
    33 <212> TYPE: DNA
    34 <213> ORGANISM: human
    36 <400> SEQUENCE: 2
    37 gggggttagg gagaat                                       16
    40 <210> SEQ ID NO: 3
    41 <211> LENGTH: 16
    42 <212> TYPE: DNA
    43 <213> ORGANISM: human
    45 <400> SEQUENCE: 3
    46 gggttgtagg aagaat                                       16
    49 <210> SEQ ID NO: 4
    50 <211> LENGTH: 16
    51 <212> TYPE: DNA
    52 <213> ORGANISM: human
    54 <220> FEATURE:
    55 <221> NAME/KEY: misc_feature
    56 <222> LOCATION: (10)..(10)
    57 <223> OTHER INFORMATION: note = n may be any nucleotide
    60 <400> SEQUENCE: 4
W--> 61 gggttgtagn aagaat                                       16
    64 <210> SEQ ID NO: 5
    65 <211> LENGTH: 16
    66 <212> TYPE: DNA
```

(Pg-6)

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       67  <213> ORGANISM: human
       69  <400> SEQUENCE: 5
       70  gggggttggg gagaat                                           16
       73  <210> SEQ ID NO: 6
       74  <211> LENGTH: 16
       75  <212> TYPE: DNA
       76  <213> ORGANISM: human
       78  <220> FEATURE:
       79  <221> NAME/KEY: misc_feature
       80  <222> LOCATION: (10)..(10)
       81  <223> OTHER INFORMATION: note = n may be any nucleotide
       84  <400> SEQUENCE: 6
W-->   85  gggttgtagn aagaag                                           16
       88  <210> SEQ ID NO: 7
       89  <211> LENGTH: 16
       90  <212> TYPE: DNA
       91  <213> ORGANISM: human
       93  <400> SEQUENCE: 7
       94  gggggttagg gtgaat                                           16
       97  <210> SEQ ID NO: 8
       98  <211> LENGTH: 16
       99  <212> TYPE: DNA
      100  <213> ORGANISM: human
      102  <400> SEQUENCE: 8
      103  gggttgtagg gagaat                                           16
      106  <210> SEQ ID NO: 9
      107  <211> LENGTH: 16
      108  <212> TYPE: DNA
      109  <213> ORGANISM: human
      111  <400> SEQUENCE: 9
      112  gggggttatg gagaat                                           16
      115  <210> SEQ ID NO: 10
      116  <211> LENGTH: 16
      117  <212> TYPE: DNA
      118  <213> ORGANISM: human
      120  <220> FEATURE:
      121  <221> NAME/KEY: misc_feature
      122  <222> LOCATION: (10)..(10)
      123  <223> OTHER INFORMATION: note = n may be any nucleotide
      126  <400> SEQUENCE: 10
W-->  127  gggttgtagn gagaat                                           16
      130  <210> SEQ ID NO: 11
      131  <211> LENGTH: 16
      132  <212> TYPE: DNA
      133  <213> ORGANISM: human
      135  <400> SEQUENCE: 11
      136  gggggttggg gaggct                                           16
      139  <210> SEQ ID NO: 12
      140  <211> LENGTH: 16
```

```
      141 <212> TYPE: DNA
      142 <213> ORGANISM: human
      144 <400> SEQUENCE: 12
      145 gggggttagg aagaat                                          16
      148 <210> SEQ ID NO: 13
      149 <211> LENGTH: 16
      150 <212> TYPE: DNA
      151 <213> ORGANISM: human
      153 <220> FEATURE:
      154 <221> NAME/KEY: misc_feature
      155 <222> LOCATION: (3)..(3)
      156 <223> OTHER INFORMATION: note = n may be any nucleotide
      159 <400> SEQUENCE: 13
W--> 160 ggnggttggg gagaat                                          16
      163 <210> SEQ ID NO: 14
      164 <211> LENGTH: 16
      165 <212> TYPE: DNA
      166 <213> ORGANISM: human
      168 <400> SEQUENCE: 14
      169 gggggtcagg gtgaat                                          16
      172 <210> SEQ ID NO: 15
      173 <211> LENGTH: 16
      174 <212> TYPE: DNA
      175 <213> ORGANISM: human
      177 <400> SEQUENCE: 15
      178 gggttgtagg gtgaat                                          16
      181 <210> SEQ ID NO: 16
      182 <211> LENGTH: 16
      183 <212> TYPE: DNA
      184 <213> ORGANISM: human
      186 <400> SEQUENCE: 16
      187 gggggttggg aagaat                                          16
      190 <210> SEQ ID NO: 17
      191 <211> LENGTH: 16
      192 <212> TYPE: DNA
      193 <213> ORGANISM: human
      195 <220> FEATURE:
      196 <221> NAME/KEY: misc_feature
      197 <222> LOCATION: (3)..(3)
      198 <223> OTHER INFORMATION: note = n may be any nucleotide
      201 <400> SEQUENCE: 17
W--> 202 ggnggttagg gagaat                                          16
      205 <210> SEQ ID NO: 18
      206 <211> LENGTH: 16
      207 <212> TYPE: DNA
      208 <213> ORGANISM: human
      210 <220> FEATURE:
      211 <221> NAME/KEY: misc_feature
      212 <222> LOCATION: (10)..(10)
```

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```
213 <223> OTHER INFORMATION: note = n may be any nucleotide
216 <400> SEQUENCE: 18
W--> 217 gggggttagn gagaat                                              16
220 <210> SEQ ID NO: 19
221 <211> LENGTH: 16
222 <212> TYPE: DNA
223 <213> ORGANISM: human
225 <400> SEQUENCE: 19
226 aggggttagg gagaat                                                   16
229 <210> SEQ ID NO: 20
230 <211> LENGTH: 16
231 <212> TYPE: DNA
232 <213> ORGANISM: human
234 <220> FEATURE:
235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (10)..(10)
237 <223> OTHER INFORMATION: note = n may be any nucleotide
240 <400> SEQUENCE: 20
W--> 241 gggggggtagn aagaat                                             16
244 <210> SEQ ID NO: 21
245 <211> LENGTH: 16
246 <212> TYPE: DNA
247 <213> ORGANISM: human
249 <400> SEQUENCE: 21
250 gggggttggg gagaag                                                   16
253 <210> SEQ ID NO: 22
254 <211> LENGTH: 16
255 <212> TYPE: DNA
256 <213> ORGANISM: human
258 <400> SEQUENCE: 22
259 gggttgtatg aagaat                                                   16
262 <210> SEQ ID NO: 23
263 <211> LENGTH: 16
264 <212> TYPE: DNA
265 <213> ORGANISM: human
267 <400> SEQUENCE: 23
268 gggggggtagg aagaat                                                  16
271 <210> SEQ ID NO: 24
272 <211> LENGTH: 16
273 <212> TYPE: DNA
274 <213> ORGANISM: human
276 <220> FEATURE:
277 <221> NAME/KEY: misc_feature
278 <222> LOCATION: (10)..(10)
279 <223> OTHER INFORMATION: note = n may be any nucleotide
282 <400> SEQUENCE: 24
W--> 283 gggttgtggn aagaat                                              16
286 <210> SEQ ID NO: 25
287 <211> LENGTH: 16
```

```
      288 <212> TYPE: DNA
      289 <213> ORGANISM: human
      291 <400> SEQUENCE: 25
      292 gggttgtagg aagaag                                           16
      295 <210> SEQ ID NO: 26
      296 <211> LENGTH: 16
      297 <212> TYPE: DNA
      298 <213> ORGANISM: human
      300 <400> SEQUENCE: 26
      301 gggggttggg gtgaat                                           16
      304 <210> SEQ ID NO: 27
      305 <211> LENGTH: 16
      306 <212> TYPE: DNA
      307 <213> ORGANISM: human
      309 <400> SEQUENCE: 27
      310 gggggttatg aagat                                            16
      313 <210> SEQ ID NO: 28
      314 <211> LENGTH: 16
      315 <212> TYPE: DNA
      316 <213> ORGANISM: human
      318 <220> FEATURE:
      319 <221> NAME/KEY: misc_feature
      320 <222> LOCATION: (10)..(10)
      321 <223> OTHER INFORMATION: note = n may be any nucleotide
      324 <400> SEQUENCE: 28
W-->  325 gggggttagn aagaat                                           16
      328 <210> SEQ ID NO: 29
      329 <211> LENGTH: 16
      330 <212> TYPE: DNA
      331 <213> ORGANISM: human
      333 <400> SEQUENCE: 29
      334 aggggttagg aagaat                                           16
      337 <210> SEQ ID NO: 30
      338 <211> LENGTH: 16
      339 <212> TYPE: DNA
      340 <213> ORGANISM: human
      342 <220> FEATURE:
      343 <221> NAME/KEY: misc_feature
      344 <222> LOCATION: (3)..(3)
      345 <223> OTHER INFORMATION: note = n may be any nucleotide
      348 <400> SEQUENCE: 30
W-->  349 ggnggttagg aagaat                                           16
      352 <210> SEQ ID NO: 31
      353 <211> LENGTH: 16
      354 <212> TYPE: DNA
      355 <213> ORGANISM: human
      357 <220> FEATURE:
      358 <221> NAME/KEY: misc_feature
      359 <222> LOCATION: (10)..(10)
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/30/2005
PATENT APPLICATION: **US/10/539,953**   TIME: 09:08:23

    Input Set : **A:\WCM.96.ST25.txt**
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 10
Seq#:6; N Pos. 10
Seq#:10; N Pos. 10
Seq#:13; N Pos. 3
Seq#:17; N Pos. 3
Seq#:18; N Pos. 10
Seq#:20; N Pos. 10
Seq#:24; N Pos. 10
Seq#:28; N Pos. 10
Seq#:30; N Pos. 3
Seq#:31; N Pos. 10
Seq#:34; N Pos. 3

VERIFICATION SUMMARY   DATE: 06/30/2005
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```
L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
```